

WHAT IS CLAIMED IS:

1. A tissue shaping device adapted to be deployed in a lumen to modify the shape of target tissue adjacent to the lumen, the device comprising:

first and second anchors;

a connector disposed between the first and second anchors; and

a focal deflector disposed between the first and second anchors.

2. The device of claim 1 wherein the lumen has a lumen axis, the focal deflector being adapted to extend away from the lumen axis and toward the target tissue when the device is deployed in the lumen.

3. The device of claim 1 wherein the lumen has a lumen axis, the focal deflector being adapted to extend away from the lumen axis and away from the target tissue when the device is deployed in the lumen.

4. The device of claim 1 wherein the focal deflector comprises an expandable portion.

5. The device of claim 4 wherein the expandable portion is adapted to be self-expanding.

6. The device of claim 4 wherein the expandable portion is adapted to be expanded by an actuation force.

7. The device of claim 4 further comprising a lock locking the focal deflector in an expanded configuration.

8. The device of claim 1 further comprising an attachment element attaching the focal deflector to the connector.

9. The device of claim 1 wherein the focal deflector is integral with the connector.
10. The device of claim 9 wherein the focal deflector comprises a bend in the connector.
11. The device of claim 10 wherein the lumen has a lumen axis, the focal deflector being adapted to extend away from the lumen axis and toward the target tissue when the device is deployed in the lumen.
12. The device of claim 9 wherein the connector has a linear shape, the focal deflector comprising a local change to the linear shape.
13. The device of claim 12 wherein the connector linear shape is a curved line, the focal deflector comprising a portion of increased curve of the curved line.
14. The device of claim 9 wherein the focal deflector comprises a flattened portion of the connector.
15. The device of claim 1 wherein the focal deflector comprises an expandable anchor.
16. The device of claim 15 wherein the lumen has a lumen axis, the focal deflector further comprising a portion integral with the connector and adapted to extend away from the lumen axis and toward the target tissue when the device is deployed in the lumen.
17. A method of modifying target tissue shape comprising:
providing a tissue shaping device comprising proximal and distal anchors, a connector disposed between the proximal and distal anchors, and a focal deflector;
placing the tissue shaping device in a lumen adjacent the target tissue;

applying a shaping force from the focal deflector against a lumen wall to modify the shape of the target tissue; and

expanding the proximal and distal anchors to anchor the device in the lumen.

18. The method of claim 17 wherein the expanding step comprises:

expanding the distal anchor to anchor within the lumen;

applying a proximally directed force on the device; and

expanding the proximal anchor while applying the proximally directed force.

19. The method of claim 17 wherein the lumen has a lumen axis, the placing step comprising orienting the focal deflector away from the lumen axis and toward the target tissue.

20. The method of claim 17 wherein the lumen has a lumen axis, the placing step comprising orienting the focal deflector away from the lumen axis and away from the target tissue.

21. The method of claim 17 wherein the applying step comprises expanding the focal deflector.

22. The method of claim 21 wherein the expanding step comprises applying an actuation force to the focal deflector.

23. The method of claim 21 further comprising locking the focal deflector in an expanded configuration.

24. The method of claim 17 wherein the applying and expanding steps comprise:
expanding the distal anchor to anchor within the lumen;
applying a proximally directed force on the device;
expanding the focal deflector while applying the proximally directed force;
applying a proximally directed force on the device after expanding the focal deflector;
and

expanding the proximal anchor while applying the proximally directed force of the previous step.

25. A tissue shaping device adapted to be deployed in a lumen to modify the shape of target tissue adjacent to the lumen, the device comprising:

an expandable anchor;

a focal deflector;

a connector disposed between the anchor and the focal deflector; and

a tail extending from the focal deflector away from the anchor

26. The tissue shaping device of claim 25 wherein the focal deflector comprises an expandable portion.

27. The device of claim 25 wherein the lumen has a lumen axis, the focal deflector being adapted to extend away from the lumen axis and away from the target tissue when the device is deployed in the lumen.